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Errata in Vol. XLIII., No. 1, November 1882.

(*Communicated by the Astronomer Royal.*)

Observations of Comet a, 1882, S.P. with the Transit Circle.

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			h m s		h m s
May 12	Greenwich Mean Solar Time,	*for*	8 52 15	*read*	8 52 13
	R.A.	„	0 14 19·68	„	0 14 17·46
15	R.A.	„	1 26 20·62	„	1 26 19·51
19	Greenwich Mean Solar Time	„	10 48 58	„	10 49 0
	R.A.	„	2 38 58·01	„	2 38 59·06

The corrections on May 12 and 15 are owing to errors of computation in taking the means of the wires, the usual practice of neglecting the minutes and decades of seconds in the summation of the wires having been followed in this case, to which it is not applicable on account of the uncertainty of observation of the middle wire exceeding 1ˢ.

Observations of Comet c, 1884 (Wolf), made at the Royal Observatory, Greenwich.

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The observations with the East or Sheepshanks Equatorial and the Lassell Reflector were made by taking transits over two cross-wires at right angles to each other, and each inclined 45° to the parallel of declination.

Observations of Comet c, 1884, with the Transit Circle.

1884.	Greenwich Mean Solar Time.	Observer.	R.A.	N.P.D. (corrected for Refraction and Parallax).
d	h m s		h m s	° ′ ″
Sept. 25	8 57 39	J. P.	21 17 57·74	69 49 14·21
27	8 51 9	L.	21 19 19·24	70 45 12·75
28	8 47 58	A. D.	21 20 4·16	71 13 55·99

September 25.—A very faint object, diffused at edges but slightly condensed towards centre. Object confused with illuminated wires. The observation of N.P.D. very rough, the horizontal wire being unilluminated.

September 27.—Extremely faint patch of light, brighter towards centre. Observation of N.P.D. not very good.

September 28.—Fairly bright in dark field with nucleus.

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Observations of Comet c, 1884, *with the East Equatorial, aperture* 6·7 *inches.*

Observer, A. D.

Greenwich Mean Solar Time. 1884.	☄ − ✳ R.A.	Corr. for Par. and Refrac. in R.A.	☄ − ✳ N.P.D.	Corr. for Par. and Refrac. in N.P.D.	No. of Comp.	Apparent R.A.	Apparent N.P.D.
d h m s	m s	s	′ ″	″		h m s	° ′ ″
Sept. 28 7 54 23	−1 5·60	−0·10	+5 10·8	−5·1	4	21 20 1·08	71 12 15·6 *a*

Comet very faint but with stellar nucleus; moon bright; clouds passing.

Observations of Comet c, 1884, *with the Lassell Reflector, aperture* 24 *inches.*

Greenwich Mean Solar Time. 1884.	☄ − ✳ R.A.	Corr. for Par. and Refract. in R.A.	☄ − ✳ N.P.D.	Corr. for Par. and Refract. in N.P.D.	No. of Comp.	Apparent R.A.	Apparent N.P.D.
			Observer, H.				
d h m s	m s	s	′ ″	″		h m	° ′
Nov. 7 9 38 51	−1 23·94	+0·26	+0 11·1	−7·5	4		*b*
9 45 17	+1 24·01	+0·26	−3 56·4	−7·7	2		*c*
9 57 18	+4 30·32	+0·27	−2 14·3	−7·6	2	22 23 54·56	89 9 58·8 *d*
10 3 56	+0 54·79	+0·29	−5 0·2	−7·8	1	22 23 55·87	89 10 23·8 *e*
9 57 18	+3 14·66	+0·28	−3 43·3	−7·7	2		*f*
			Observer, A. D.				
Nov. 8 9 16 47	+0 22·78	+0·22	−2 11·8	−7·6	4	22 26 2·91	89 30 42·3 *g*
9 27 51	−0 16·64	+0·24	−5 36·2	−7·8	3	22 26 7·80	89 28 53·2 *h*
9 42 53	+1 37·19	+0·24	+3 28·3	−7·3	3	22 26 5·30	89 29 11·7 *i*

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Assumed Mean Places of the Comparison Stars.

Star.	Star's Name.	R.A. 1884·0 h m s	N.P.D. 1884·0 ° ′ ″	
a	B. F. 2925	21 21 3·28	71 7 35·1	3 meridian observations at Greenwich.
b	Anonymous			
c	,,			
d	π Aquarii	22 19 21·10	89 12 38·8	Greenwich 7 year Catalogue, 1864.
e	Arg. Z. + 0° − 4878	22 22 57·92	89 15 49·6	Bonn. Obs. vol. vi.
f	Anonymous			
g	Arg. Z. + 0° − 4887	22 25 36·97	89 33 19·8	Bonn. Obs. vol. iii.
h	Arg. Z. + 0° − 4889	22 26 21·27	89 34 55·1	,,
i	Arg. Z. + 0° − 4884	22 24 24·94	89 26 9·0	,,

November 7.—Comet very faint at last observation. Moon rising.

November 8.—Some difficulty in finding comet as thin clouds were constantly coming up; but comet bright with nucleus when the sky was clear. A small star seen through the nebulous envelope. Wires seen with difficulty, transits rough in consequence.

The observations are corrected for parallax and refraction. The initials A. D., L., H., and J. P. are those of Mr. Downing, Mr. Lewis, Mr. Hollis, and Mr. J. Power.

F

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Occultations of Stars by the

Observed at the Davidson Observatory, San Francisco, California,

(*Communicated by*

No.	Date 1883.		Star.	Estimated Mag.	Phase.	Obs.	Telescope.		Chronom.
							Ap. inch.	Power diam.	
1	Jan.	14	Yarnall 413	7½–8	Im.	C.B.H.	6·4	90?	Sid. 223
2			Anon.	8½–9	,,	,,	6·4	90	,,
3			Arg. + 7° : 119 (?)	7½–8	,,	,,	6·4	90	,,
4			Anon.	8–8½	,,	,,	6·4	90	,,
5		15	Arg. + 11° : 218 (?)	8	,,	,,	6·4	90	,,
6			Arg. + 11° : 217 (?)	8½	,,	,,	6·4	90	,,
7	Apr.	16	14 Sextantis	—	,,	,,	6·4	120	,,
8	May	10	λ Geminorum	—	,,	,,	6·4	90	,,
9	June	12	Anon.	8½	,,	,,	6·4	150	Sid. 3479
10			B.A.C. 4020	7½	,,	,,	6·4	150	,,
11	Sept.	11	ϕ^1 Sagittarii	—	,,	G.F.D.	6·4	40	,,
12			ϕ^1 Sagittarii	—	,,	C.B.H.	3·0	105	Sid. 223
13		12	(R.A. $20^h\ 10^m\ \delta - 15^\circ{\cdot}6$)	8½	,,	,,	6·4	90	Sid. 3479
14			β^1 Capricorni	—	,,	G.D.	6·4	120	,,
15			β^2 Capricorni	—	,,	,,	6·4	120	,,
16			β^2 Capricorni	—	,,	C.B.H.	3·0	40	Sid. 223
17	Nov.	4	(R.A. $18^h\ 35^m\ \delta - 18^\circ{\cdot}7$)	9½–10	,,	,,	6·4	—	M.T. 5038

(*a*) Hazy, blurred, and tremulous, but disappearance sharp. Felt a slight doubt as t whether * disappeared *just* previous to 59·5 beat or 60·0 beat.

On a New Solar Eyepiece. By Adam Hilger.

Several forms of eyepieces have been contrived for the purpose of diminishing the light and heat from the Sun in a degree sufficiently great to permit of the using of large apertures without inconvenience to the observer.

One of the best known prisms is that which was devised by Sir John Herschel, in which a prism is used whose first surface is placed at an angle of 45°; only about one-twentieth part of its light is reflected on to the eye, the other nineteen-twentieths passing out of the telescope.

In 1871 Professor Pickering (*Proceedings American Academy of Arts and Sciences*, Feb. 14, 1871) devised an ingenious modification of this plan by cementing a second prism on to the first prism by a substance whose index of reflection is very nearly equal to that of the glass. In consequence an exceedingly small